

PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

5

### Complete if Known

Application Number	10/764,403
Filing Date	January 23, 2004
First Named Inventor	Stephen M. Key
Art Unit	1733
Examiner Name	Unknown
Attorney Docket Number	PA2644US

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MAO		US- 736,035	08-11-1903	Stevenson	
		US- 1,054,826	03-04-1913	Cole	
		US- 1,064,576	06-10-1913	Washburn	
		US- 1,145,367	07-06-1915	Herter	
		US- 1,312,611	08-12-1919	Chess	
		US- 1,334,031	03-16-1920	Hahn	
		US- 1,387,625	08-16-1921	Stein	
		US- 1,486,313	03-11-1924	Van Antwerp	
		US- 2,013,616	09-03-1935	Rettenmeyer	
		US- 2,129,364	09-06-1938	Simons et al.	
		US- 2,441,607	05-18-1948	Walls	
		US- 2,468,000	04-19-1949	Taylor	
		US- 2,504,076	04-11-1950	Lindblom	
		US- 2,706,464	04-19-1955	North	
		US- 2,738,564	03-20-1956	Guinane	
		US- 2,739,564	03-27-1956	North	
		US- 2,844,893	07-29-1958	Keller	
MAO		US- 2,860,431	11-18-1958	Barnum, Jr.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
MAO	X	SE 1565	06-07-1888	Carstens		
	X	IT 327286	07-10-1935	Tosi		
	X	FR 965522	09-14-1950	Tairraz		
	X	FR 1114750	04-16-1956	Hageltorn		
MAO	X	DK 85214	03-10-1958	Fabrikerne		

Examiner  
Signature

Mark A. Oeele

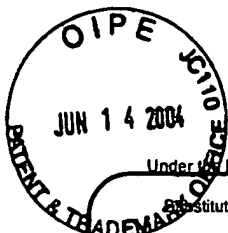
Date  
Considered

3-20-05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of

5

**Complete if Known**

Application Number	10/764,403
Filing Date	January 23, 2004
First Named Inventor	Stephen M. Key
Art Unit	1733
Examiner Name	Unknown
Attorney Docket Number	PA2644US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MAO		US- 2,931,657	04-05-1960	Lewis	
		US- 2,935,814	05-10-1960	Freeze	
		US- 2,971,283	02-14-1961	Parker	
		US- 3,278,182	10-11-1966	Lescher	
		US- 3,374,911	03-26-1968	White	
		US- 3,468,467	09-23-1969	Amberg	
		US- 3,488,880	01-13-1970	Taylor	
		US- 3,542,229	11-24-1970	Beyerlein et al.	
		US- 3,604,584	09-14-1971	Shank, Jr.	
		US- 3,733,002	05-15-1973	Fujio	
		US- 3,750,317	08-07-1973	Morgan	
		US- 3,874,977	04-01-1975	Pyles	
		US- 3,960,713	06-01-1976	Carey	
		US- 4,044,889	08-30-1977	Orentreich et al.	
		US- 4,057,251	11-08-1977	Jones et al.	
		US- 4,203,240	05-20-1980	Goodwin	
		US- 4,312,523	01-26-1982	Haines	
MAO		US- 4,381,615	05-03-1983	Lonsmin	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number * Kind Code <sup>2</sup> (if known)				
MAO	X	FR 1347102	11-18-1963	Seprosy		
	X	FR 2460260	01-23-1981	Seprosy		
	X	EP 0285514 A1	10-05-1988	Hedelin et al.		
	X	FR 2677786	12-18-1992	Charvier		
MAO	X	WO 98/19289 A1	05-07-1998	Key		

Examiner  
Signature

Mark A. Osek

Date  
Considered

3-2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 5

**Complete if Known**

Application Number	10/764,403
Filing Date	January 23, 2004
First Named Inventor	Stephen M. Key
Art Unit	1733
Examiner Name	Unknown
Attorney Docket Number	PA2644US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MAO		US- 4,405,045	09-20-1983	Villa-Real	
		US- 4,505,497	03-19-1985	Katzman	
		US- 4,567,681	02-04-1986	Fumei	
		US- 4,658,974	04-21-1987	Fujita et al.	
		US- 4,724,973	02-16-1988	Shah	
		US- 4,727,667	03-01-1988	Ingle	
		US- 4,732,411	03-22-1988	Siegel	
		US- 4,844,760	07-04-1989	Dickey	
		US- 4,877,119	10-31-1989	Hosking	
		US- 4,918,604	04-17-1990	Baum	
		US- 5,076,613	12-31-1991	Kovacs	
		US- 5,116,452	05-26-1992	Eder	
		US- 5,154,448	10-13-1992	Griffin et al.	
		US- 5,209,367	05-11-1993	Van Musscher et al.	
		US- 5,321,933	06-21-1994	Seifert et al.	
		US- 5,324,559	06-28-1994	Brombacher	
		US- 5,342,093	08-30-1994	Weermink	
MAO		US- 5,363,576	11-15-1994	Piana et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
MAO	X	WO 00/48161	08-17-2000	Stephen Key Design, LLC		

Examiner  
Signature

Mark A. Osobe

Date  
Considered

3-20-05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

4

of

5

**Complete if Known**

Application Number	10/764,403
Filing Date	January 23, 2004
First Named Inventor	Stephen M. Key
Art Unit	1733
Examiner Name	Unknown
Attorney Docket Number	PA2644US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MAD		US- 5,403,636	04-04-1995	Crum	
		US- 5,484,167	01-16-1996	Donaldson et al.	
		US- 5,525,383	06-11-1996	Witkowski	
		US- 5,605,230	02-25-1997	Marino, Jr. et al.	
		US- 5,639,529	06-17-1997	Gozdecki et al.	
		US- 5,712,021	01-27-1998	Hernandez	
		US- 5,727,766	03-17-1998	Mayo	
		US- 5,800,893	09-01-1998	Harden	
		US- 5,809,674	09-22-1998	Key	
		US- 5,842,633	12-01-1998	Nurse	
		US- 5,883,370	03-16-1999	Walker et al.	
		US- 5,884,421	03-23-1999	Key	
		US- 5,953,170	09-14-1999	Glancy	
		US- 6,047,488	04-11-2000	Tuszkiewicz	
		US- 6,086,697	07-11-2000	Key	
MAD		US- 6,129,802	10-10-2000	Key	
		US- 6,129,959	10-10-2000	Mercer et al.	
		US- 6,158,612	12-12-2000	Alpert	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Mark A. Osler

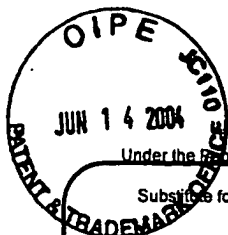
Date  
Considered

3-2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of

5

**Complete if Known**

Application Number	10/764,403
Filing Date	January 23, 2004
First Named Inventor	Stephen M. Key
Art Unit	1733
Examiner Name	Unknown
Attorney Docket Number	PA2644US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MAO		US- 6,212,803 B1	04-10-2001	Key	
		US- 6,237,269 B1	05-29-2001	Key	
		US- 6,253,438 B1	07-03-2001	Jespersen	
		US- 6,258,200 B1	07-10-2001	Kassab	
		US- 6,360,462 B1	03-26-2002	Mengel	
		US- 6,385,878 B1	05-14-2002	Key	
		US- 6,402,872 B1	06-11-2002	Key	
		US- 6,454,094 B1	09-24-2002	Salani	
		US- 6,631,578 B2	10-14-2003	Key	
		US- 6,649,007 B1	11-18-2003	Key	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Mark A. Osale

Date  
Considered

3-20-05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.